

Patent Abstracts of Japan

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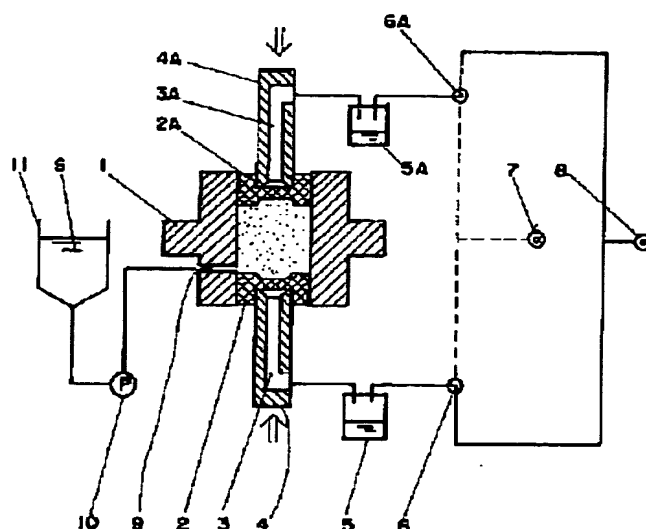
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APPLICANT : SINTOKOGIO LTD:

INVENTOR : TAKAGI SHIGEYUKI;

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TITLE : FORMING METHOD OF SINTERING
COMPACT



ABSTRACT : PURPOSE: To shorten forming time and prevent the pores of molds from clogging by a method wherein the porous air permeable molds, in the pores of which hydrophobic dispersant is infiltrated, are registered with each other so as to vacuumize the molds through the pores of the molds.

CONSTITUTION: Under the condition that stock powder in the state being covered by forming assistant with affinity is prevented from entering in the pores of molds 2 and 2A by the action of hydrophobic solvent infiltrated in the molds 2 and 2A, the hydrophobic dispersing medium in stock slurry S is forcibly sucked by vacuumizing action with vacuum source 7 for hydro-extraction, resulting in solidifying the pressure-cast slurry S in a short tie. Further, when the resultant compact is released from the molds, the spraying of compressed air from compressed air source 8 is performed under the condition that the impregnated hydrophobic solvent and the compact repel each other under contact state, preventing the pores of the molds from clogging and facilitating the releasing of the compact from the molds. Furthermore, since only the minimum forming assistant necessary for shape retention is added to the compact, the released compact is quickly dried without developing cracks.

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